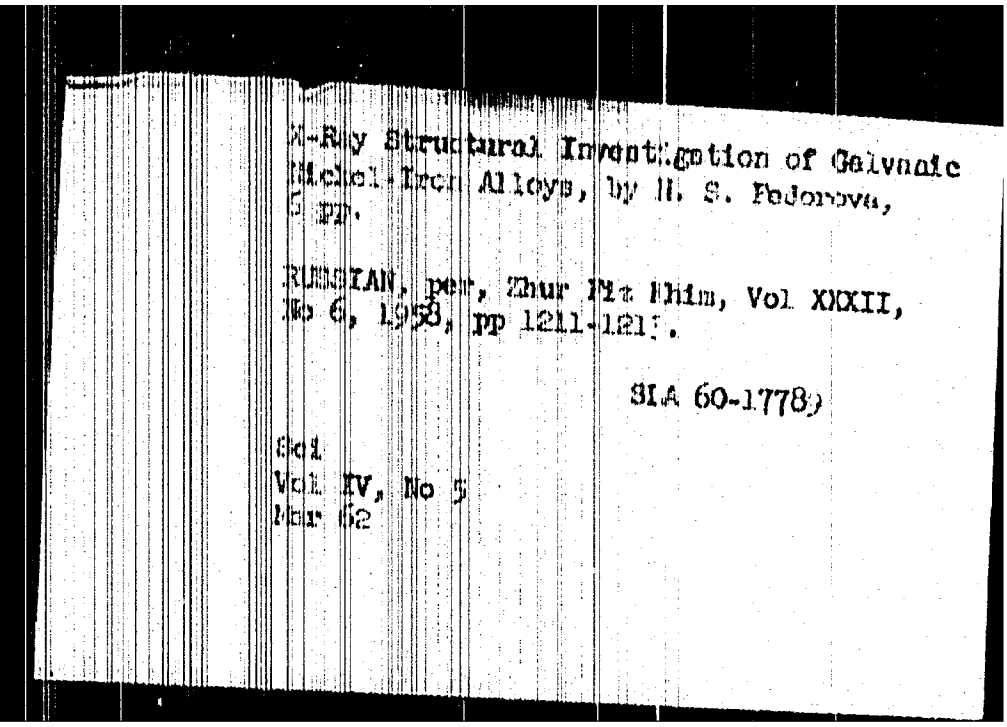
APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

K. V. Chmutov, Resolution of the All-Union Conference on Chromatography, Moscow, 3-6 Feb 58, Zhurnal Fizicheskoy Khimii, Vol 32, No 5, May 58, pp 1184-1185.

SIR No 13 (3)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1



X-Ray Structural Investigation of Galvanic Nickel-Iron Alloys, by N. S. Fedorova, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 6, 1958, pp 1211-1217.

SIA 60-1778

Skl
Vol IV, No 5
Mar 62

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

The Hydrogen Adsorption Properties of Metals as a Function of Their Position in the Mendeleyev Periodic System of Elements, by M. M. Kantarzhi, 8 pp

RUSSIAN, pub, Zhur Fiz Khim, Vol XXXII, 1958, pp 1236-1237.

AEC/BNL-T-234

Bnl - Phys

May 59

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

A Method for the Quantitative Determination of Cyclohexanone and Cyclohexanol in the Oxidation Products of Cyclohexane by Infrared Absorption Spectra, by I. V. Berezin.
RUSSIAN, per, Zh Fiz Khim, Vol 32, No 6, 1958, pp 1218-1225.
ATS-1751

Sci
Dec 60 368,687

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

[redacted]

The Isopiestic Method for Determining the Mean Molecular Weights, by S. A. Pavlova, I. I. Tverdokhlebova.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 6, 1958, pp 1313-1318.

NLL M. 2612

Sci - Chem

Nov 61

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Studies of the Cathodic Process During Electrolysis of the Pure Molten Chlorides of Calcium, Sodium and Potassium, by L. Suskii, 28 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, 7, 1958, pp 1393-1403.

AEC Tr 3667

Sci - Chem

Jun 59

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Methods and Equipment for Physical-Chemical Research. Forevacuator for Low Pressure (Low Pressure Forometer), by M. M. Dubinin,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 6, pp 1404-1406, 1958

C.S.I.R.O.

Sci - Chem

Mar 60

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

The Determination of Diffusion Coefficients in Doped Oxides, by Yu. P. Nikitin, et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 6, 1958, pp 1420.

ATS RJ-2049

Bul - Chem
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Investigation of the Kinetics of Ozone Cracking of Vulcanized Rubbers. by Yu. S. Zuyev, S. I. Pravednikova.

RUBBER, Pererab Plast Mass, Vol XXXII, No 7, 1958, pp 1057-1063

CSIRO

Sci - Chem

Jun 60

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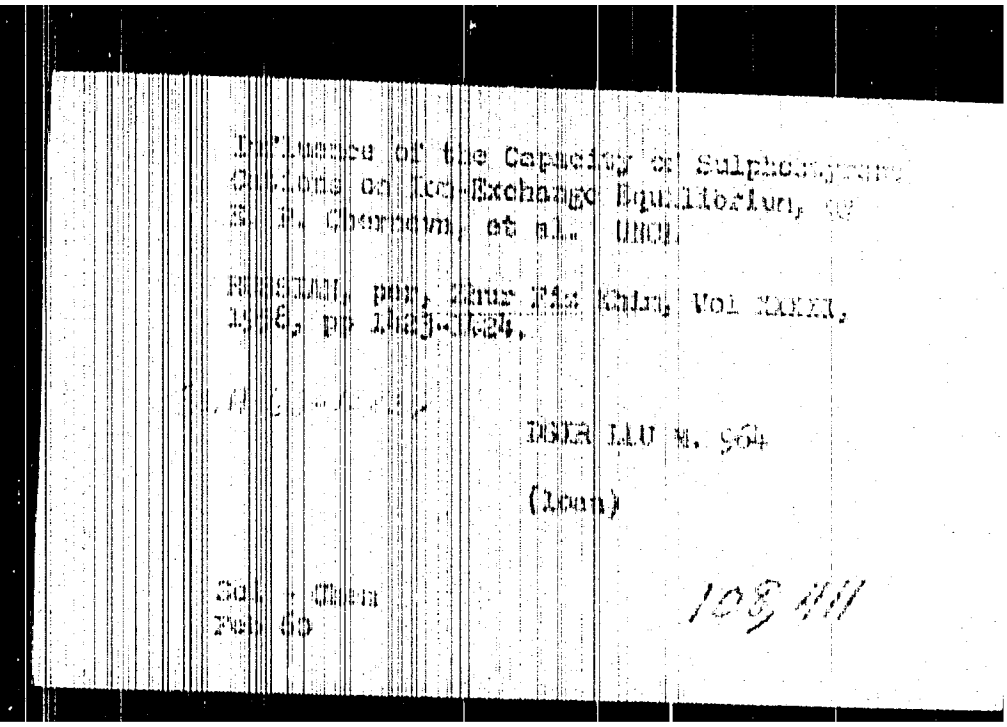
APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1



[redacted]

Influence of the Capacity of Sulphonated
Cations on Ion-Exchange Equilibrium, by
S. M. Cherenkov, et al. (RZh)

RUSSIAN, pub. Zhur Fiz Khim, Vol XXXII,
1958, pp 1863-1864.

DSIR LAU M. 964

(1pm)

Sol. + Chem
Phys

108 MM

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

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Solubility of Gases in Cyclohexane, by D. S. Tsiklis, O. M. Svetlova, 12 pp.

RUSSIAN, per, Zhur F Fiz Khim, Vol XXXII, No 7, 1958, pp 1476-1480.

SIA 59-10410

Sci - Mat
Vol 2, 1961

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Electrochemical Reaction Mechanism on the Mercury Cathode in Uranium Salt Solutions, by G. S. Tyurikov, et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII, 1953, pp 1430-1439.

*AEC

Sci - Phys Chem
Jul 53

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Isotopic Oxygen Exchange in Acid and Salt Solutions and
its Mechanism, by A. I. Bordukov, N. A. Vysotskaya.
RUSSIAN, per. Zhur Fiz Khim, Vol XXXII, No 7, 1958,
pp 1531-1537.
Dept of Navy Tr 4300/APL T-1463

Sci - Chem
Nov 60

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

[redacted]

On the Light Scattering Method of Investigating the Polydispersity of Polymers, by B. E. Eskin, M. G. Khaikina, 7 pp.

[redacted], Vol XXXI, 1958, pp [redacted].

AEC Tr 3601.

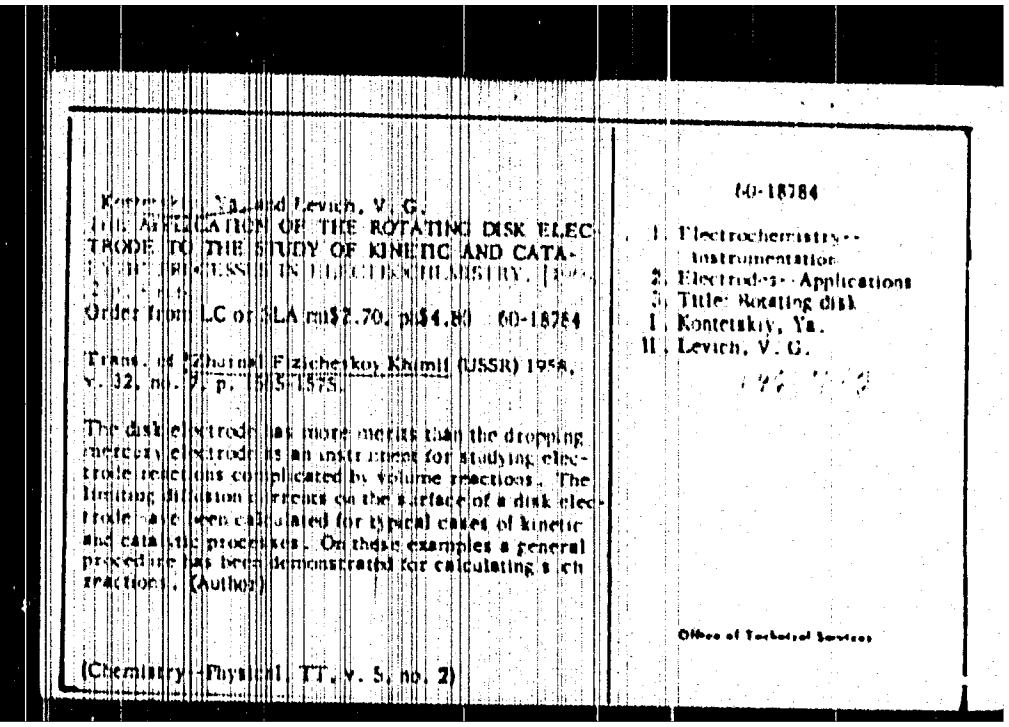
Biol. Phys.

Apr 59

85,742

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1



Kontetskiy, Ya. and Levich, V. G.
THE APPLICATION OF THE ROTATING DISK ELECTRODE TO THE STUDY OF KINETIC AND CATALYTIC PROCESSES IN ELECTROCHEMISTRY. [Pub. data illegible]
Order from: LC or SLA mi$2.70, p$4.80 60-18784

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1958, v. 32, no. 7, p. 1565-1575.

The disk electrode has more merits than the dropping mercury electrode as an instrument for studying electrode reactions complicated by volume reactions. The limiting diffusion currents on the surface of a disk electrode have been calculated for typical cases of kinetic and catalytic processes. On these examples a general procedure has been demonstrated for calculating such reactions. (Author)

(Chemistry-Physical, TT, v. 5, no. 2)

60-18784

1. Electrochemistry--Instrumentation
2. Electrodes--Applications
3. Title: Rotating disk
I. Kontetskiy, Ya.
II. Levich, V. G.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

14 329 Fr-2

ZUBOVA E. V., KARATAEVA L. A.

Chemical transformations in the solid state at pressures of 50,000 kg/cm^2 and a shearing stress

Transformations chimiques se produisant en phase solide sous l'action simultanée d'une pression de 50.000 kg/cm^2 et d'un cisaillement

Zhur. Fiz. Khim., 32, No. 7, 1576-1579 (1958)

F/R-580 - French

Abs.: NSA, 13, No. 1, ref. 102 (1959) - English

Euratom

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

A Study of the Thermodynamic Properties of Binary Iron-Manganese System in the Solid State, by A. P. Lyubimov, A. A. Granovskaya, L. Ye. Berenshteyn, 10 p.

RUSSIAN, per Zhur Fiz Khimii, 1958, Vol XXXII, No 7, pp 1591-1596.

SLA 60-10369

Bel
Apr 60
Vol XIX, No 3

112,042

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Certain Laws of Photochemical Ozone Decomposition in the Liquid Phase, by A. V. Pankratov, S. Ya. Khmelnitskiy.
RUSSIAN, Per. Zhur Fizicheskoy Khimii, Vol XXXII, No 7, 1958, pp 1605-1611.
*RESTRICTED T-10,388

Sci-Phys
Nov 60

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

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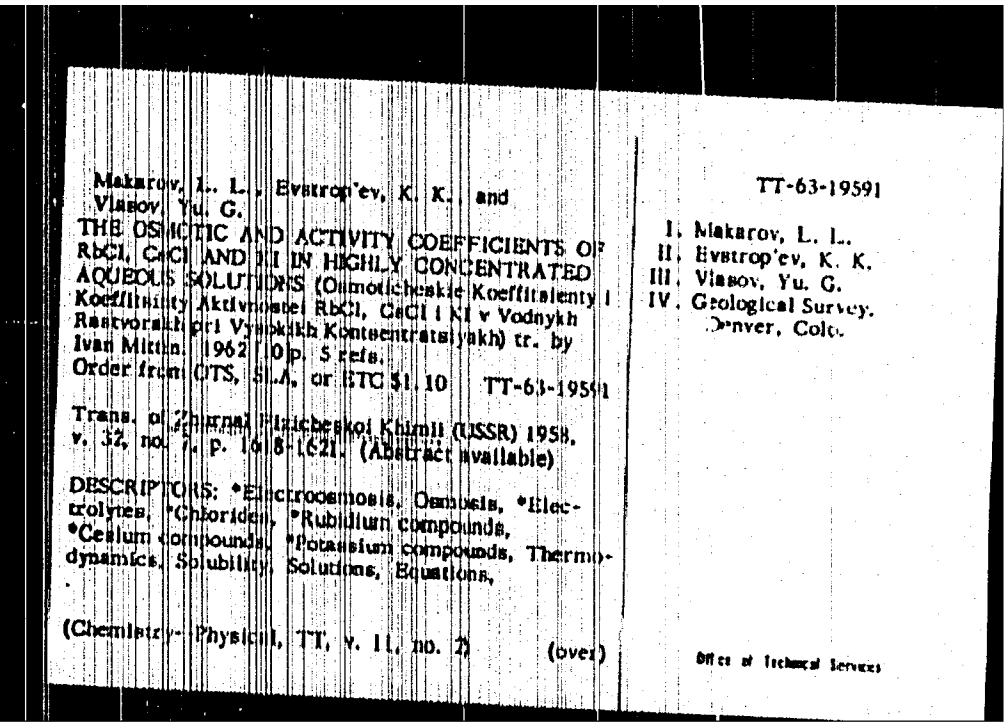

Makarov, L. L., Evstrop'ev, K. K., and Vlasov, Yu. G.

THE OSMOTIC AND ACTIVITY COEFFICIENTS OF RbCl, CsCl AND NaI IN HIGHLY CONCENTRATED AQUEOUS SOLUTIONS (Osmoticheskie Koeffitsienty i Koeffitsienty Aktivnosti RbCl, CsCl i NaI v Vodnykh Rastvorakh pri Vysokikh Kontsentratsiyakh) tr. by Ivan Mitlin. 1962. 10 p. 5 refs.
Order from: OTS, U.S.A. or ITC $1.10 TT-63-19591

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1958, v. 32, no. 7, p. 1618-1621. (Abstract available)

DESCRIPTORS: *Electroosmosis, Osmosis, *Electrolytes, *Chlorides, *Rubidium compounds, *Cesium compounds, *Potassium compounds, Thermodynamics, Solubility, Solutions, Equations,

(Chemistry-Physical, TT, v. 11, no. 2) (over)

TT-63-19591

I. Makarov, L. L.
II. Evstrop'ev, K. K.
III. Vlasov, Yu. G.
IV. Geological Survey. Denver, Colo.

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Effect of Surface-Active Substances on the Diffusion Rate of Electrolytic Hydrogen Through Iron, by A. I. Obba, 12 pp.

RUSSIAN, per: Zhur Fiz Khim, Vol XXXII, No 7, 1958, pp 1622-1631. 9095541

AEC Tr-4855

Sci - Phys, Chem
Mar 62

186,496

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Phase and Volume Relationships in Liquid-Gas Systems at High Pressures. Part 6. The Cyclohexane-Hydrogen System, by I. R. Krichevskiy,
RUSSIAN, per, Zh Fiz Khim., Vol 32, No 9, 1958, pp 2080-2086.
ATS-RJ-5837

Apr 72

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Dobychin, D. P.
THE DIFFUSION OF WATER VAPOR AND THE FLOW OF AIR THROUGH POROUS GLASS
(Diffuziya Vodyanykh Parov i Techenie Vozdukha v Poristom Stekle). [1963] [12p] (foreign text included)
9refs
Order from OTS, SLA, or BTC $1.60 TT-64-10573

Trans. of: Zhurn. Prikladnoi Khimii (USSR) 1959, v. 32, no. 10, p. 2336-2339).
A trans. is available in French from OTS or SLA $1.10 as TT-62-23075, CEA-tr-R 581, 24 Mar 62 [9p].

DESCRIPTORS: *Porous materials, *Glass, Water vapor, Diffusion, *Gas flow, Sorption, Catalysis.

(Chemistry--Physical, TT, v. 11, no. 8)

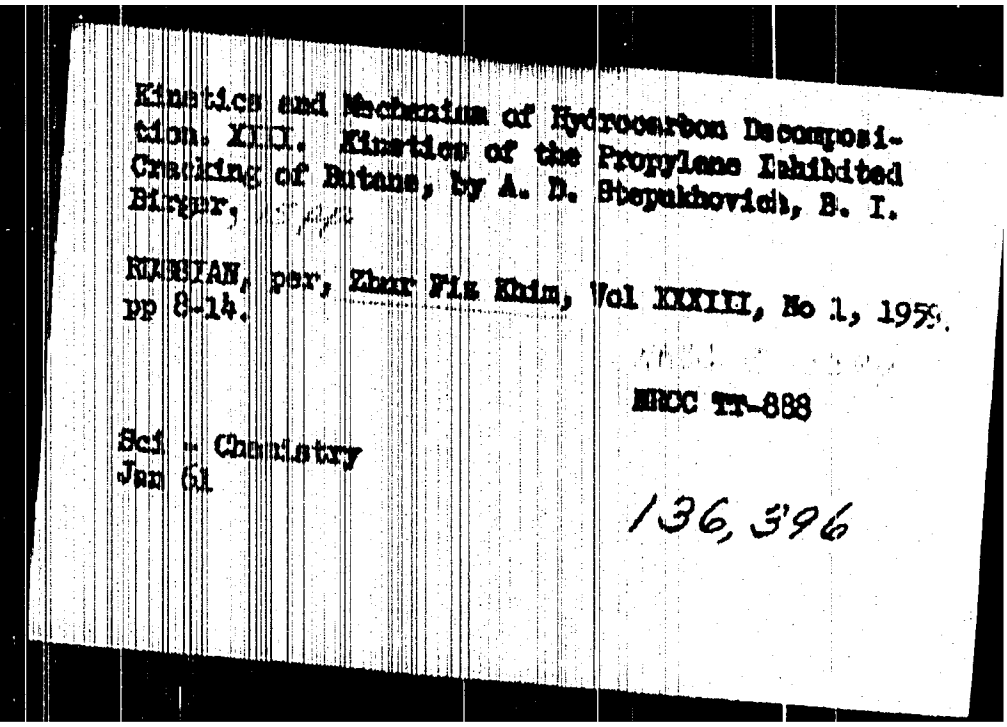
TT-64-10573

1. Dobychin, D. P.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1



Kinetics and Mechanism of Hydrocarbon Decomposition. XIII. Kinetics of the Propylene Inhibited Cracking of Butane, by A. D. Stepukhovich, B. I. Birger,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 1, 195[illegible]. pp 8-14.

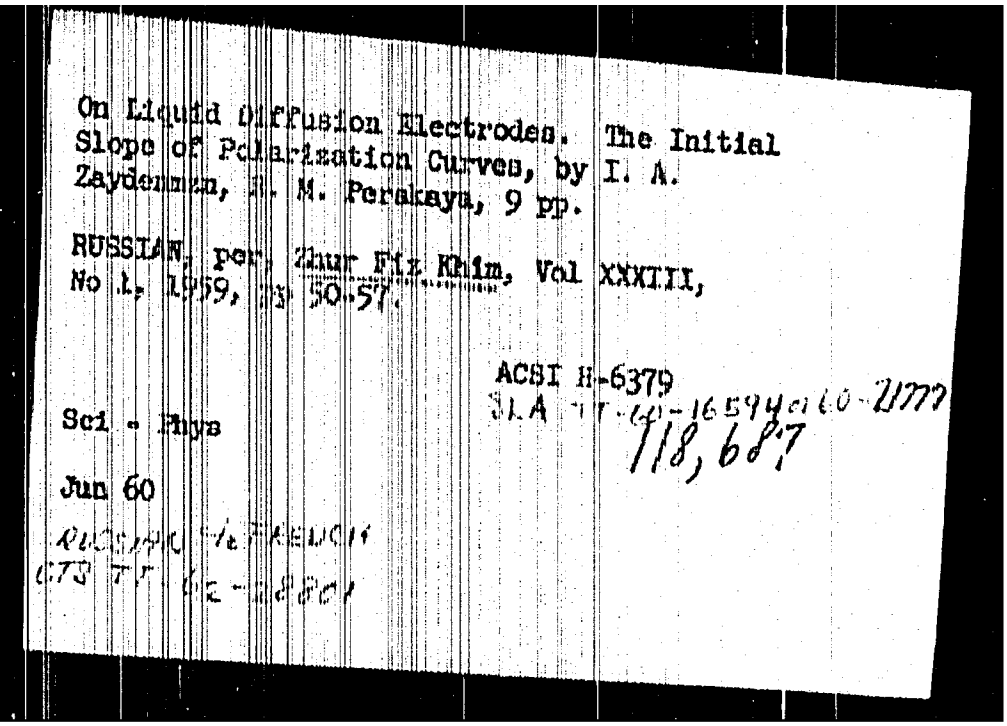
MRCC TT-888

Sci - Chemistry
Jan 61

136,396

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1



On Liquid Diffusion Electroden. The Initial Slope of Polarization Curves, by I. A. Zaydenman, M. M. Peraksya, 9 pp.

RUSSIAN, per: Zhur Fiz Khim, Vol XXXIII, No 1, 1959, pp 50-57.

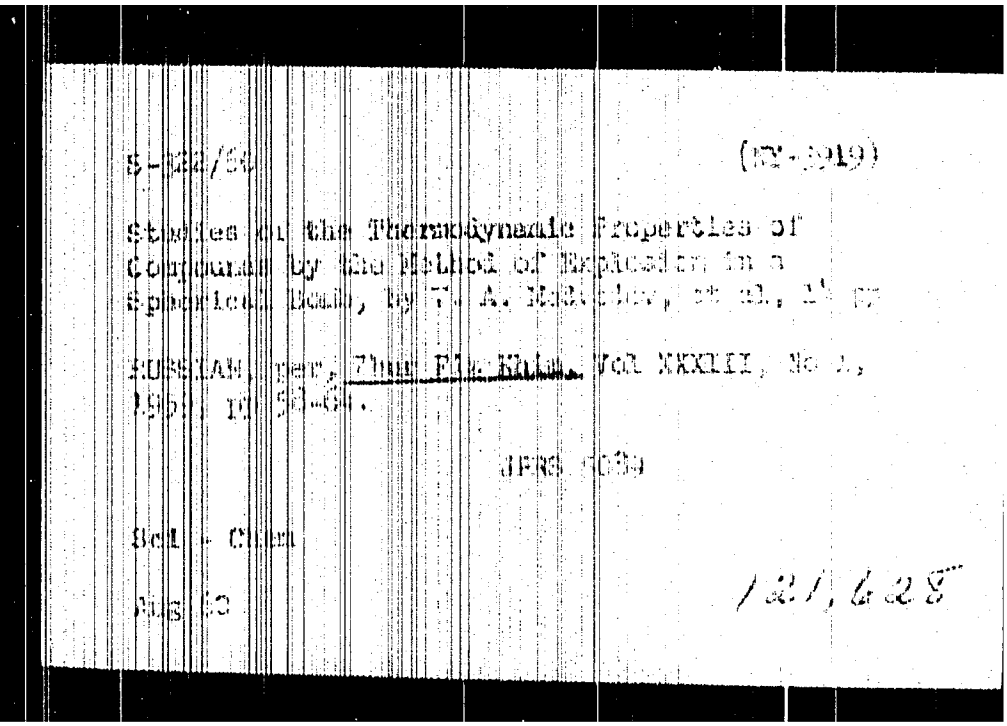
ACSI H-6379

Sci - Phys

Jun 60

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1



B-932/60 (RZh-1959)

Studies on the Thermodynamic Properties of
Compounds by the Method of Expansion in a
Spherical Bomb, by T. A. Bekkerov, et al., in
RUSSIAN, per. Zhur. Fiz. Khim., Vol XXXIII, No. 1,
1959, pp 58-64.

JPRS (1089)

Del - Chem

Mus Ed

121,428

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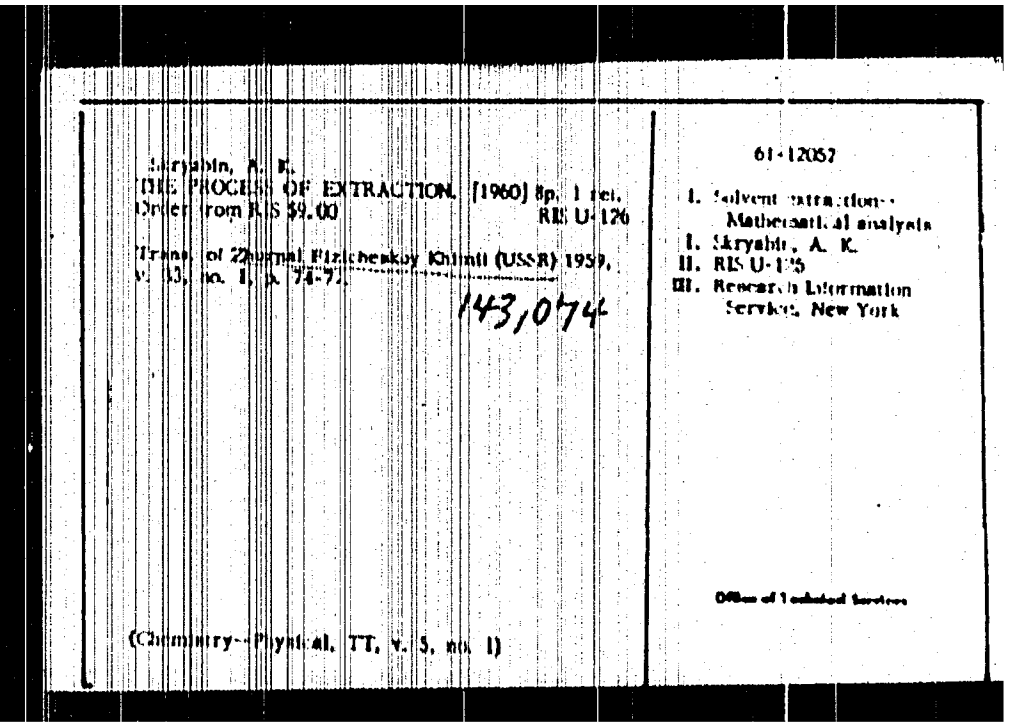

Skryabin, A. K.
THE PROCESS OF EXTRACTION. [1960] 8p. 1 ref.
Order from B.I.S $9.00 RIS U-126

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1959,
v. 33, no. 1, p. 74-7.

143,074

(Chemistry--Physical, TT, v. 5, no. 1)

61-12057

I. Solvent extraction--
Mathematical analysis
I. Skryabin, A. K.
II. RIS U-126
III. Research Information
Service, New York

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

[redacted]

The Crystalline State of Polymers. I. The Crystallization of Polymers in the Process of Polymerization, by D. P. Gregoryev,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 1, 1959, pp 96-99.

ASTIA RJ-2119

Sci - Chem

May 60

US 406

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Tedoradze, G. A.
KINETICS OF THE OXIDATION OF CHLORIDE IONS ON PLATINUM (Kinetika Okisleniya Ionov Khlora na Platine). Apr 61 [16]p. 20 refs. RTS 1795.
Order from OTS or SLA $1.50 61-19693

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1959. v. 33, no. 1, p. 129-134.

DESCRIPTORS: *Chlorides, *Ions, *Platinum, *Oxidation, Chemical reactions, Anodes (Electrolytic cell), *Electrolysis, Electrochemistry.

(Chemistry--Physical, TT, v. 6, no. 1)

61-19693

I. Tedoradze, G. A.
II. RTS-1795
III. Department of Scientific and Industrial Research (Gt. Brit.)

16181

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

[redacted]

TT-62-26748

Delimarskii, Yu. K. and Gorodyskii, A.V.
[illegible] DE L'EXTENSION DE LA DECOMPOSITION DES ELECTROLYTES (Decomposition Potentials of Electrolytes). Paris, 12refs. CNRS-VIII 512.
Order from OTS, ETC or CNRS $0.50 TT-62-26748

I. Delimarskii, Yu.K.
II. Gorodyskii, A.V.
III. CNRS-VIII 512
IV. Centre National de la Recherche Scientifique, Paris

Trans. from Zhurnal Fizicheskoi Khimii (USSR) 1959, v. [illegible], no. 1, p. 105-110

DESCRIPTORS: Electrolytes, *Electric potential, Decomposition, Electric currents.

(Chemical-Physical, TT, v. 11, no. 7)

Office of Technical Services
European Translation Center

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Statistics of Adsorbed Particles in the Electronic Theory of Chemisorption, by Sh. M. Kogan,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, 1959, pp 155-160.

ABC Tr-4298
ATI/AD-302?

Sci - Phys
24 Feb 61

141,070

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Oscillographic Investigations of the Kinetics of the Electrode Processes on Metallic Electrodes, by V. I. Kravtsov, 18 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol. XXXIII, No 1, 1959, pp 165-173.

OTS 60-16595

1cl
Mar 62
Vol 4, No 4

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

[redacted]

Influence of Boron Fluoride on the Catalytic Activity of Aluminum Oxide and Aluminosilicates, by T. V. Antipina, K. N. Avdonyna,

RUSSIAN, pp, Zhur Fiz Khim, Vol XXXIII, No 1, pp 192-196, 1959

C,9,1,R,O,

Bel

May 60

116,075

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

[redacted]

The Influence of Surface Active Substances on the Motion of Gas Bubbles in Hydrocarbon Liquids, by A. Kh. Kobendzik, et al.

RUSSIAN, Zhur. Fiz. Khim, Vol XXXIII, No 1, 1959, pp 197-203.

ATS RJ-1964

Bed [redacted] Chem

Jan 60

105 757

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Ushakova, G. S. and Eremin, E. N.
FORMATION D'OZONE A PARTIR DES PRODUITS DE LA DISSOCIATION DU CO_2 DANS LA DECHARGE OBSCURE [Obrazovanie Ozona Iz Produktov Dissotsiatsii CO_2 v Temnovkhem Razryade] (Formation of Ozone Starting with Dissociation Products of CO_2 in the Dark Discharge) tr. by Kefell. 23 Feb 60 [6 p. 1 ref. CEA Trans. no. R 832 (text in French).
Order from OTS or SLA $1.10 61-23794

Trans. in French of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR) 1959, v. 33, no. 1, p. 233.

DESCRIPTORS: *Ozone, *Glow discharges, *Carbon dioxide, *Dissociation.

A discharge tube of the type Yud, with aluminum electrodes, was used and the reaction products were frozen. A 250-ma current and a 2.4- to 2.5-kv potential were used. In order to reduce the dissociation
(Chemistry--Physical, TT, v. 6, no. 6) (over)

61-23794

I. Ushakova, G. S.
II. Eremin, E. N.
III. CEA-tr-R832
IV. Commissariat à l'Energie Atomique (France)

17669]

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

[redacted]

The Crystalline State of Polymers. Part II.
Crystallization of Polymers in the Process of
Film Formation, by V. D. Fedoseyev, V. A.
Kargin, et al.

RUSSIA, Zhur Fiz Khim, Vol XXXIII, No 9,
1959, pp 2052-2060.

ASTIA AD-230 [illegible]

XX-823

Sch - Chem

Jun 60

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

The Porous Structure and Specific Surface Area of Mic-Al_2O_3 Catalysts and the Variation of These Properties With Changes in Composition and Thermal Treatment, by A. M. Rubinshteyn, et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 2, 1959, pp 310-317.

DSIR LLU M.1405
(loan)

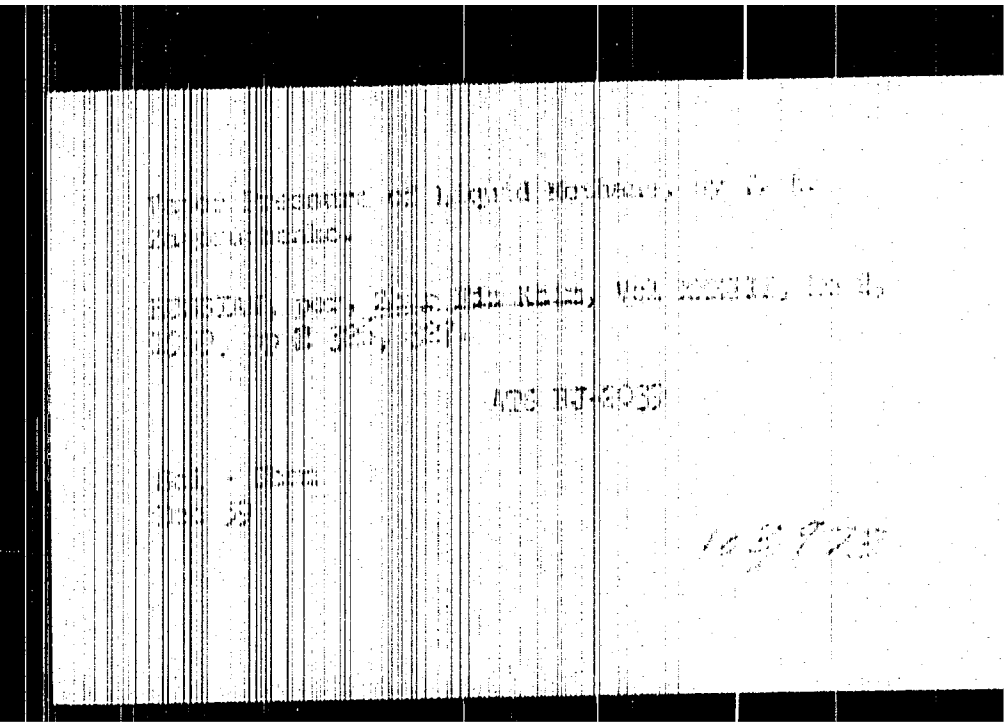
128,765

Sci - Chem

Oct 60

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1



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*CFSTI TT 67-51425

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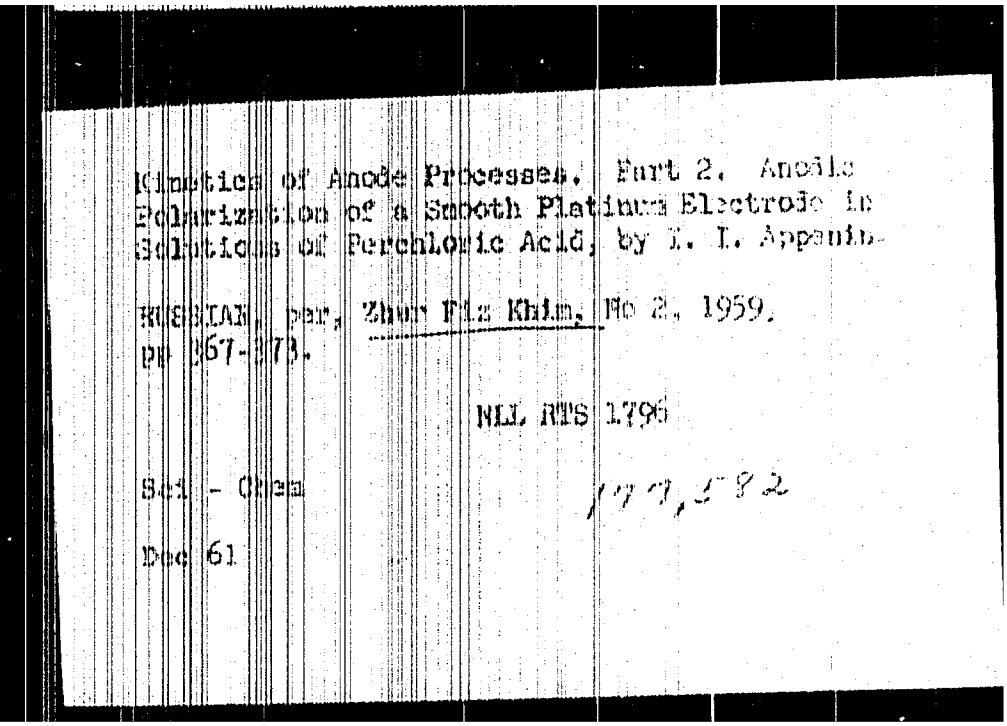

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Order from: C of SLA m$1.80, ph$1.80 60-16906

Trans. of Zh. fiz. khimii Fiz[icheskoy] Khimii (USSR) 1959, v. 33 [no. 2] : 405-410.

The [illegible] of Cr^{49} formed from the [illegible] of potassium chromates and dichromates in line with the reaction $Cr^{50}(\gamma n)Cr^{49}$ was demonstrated. The enrichment factor is greater than 10⁴. The retention factor in the irradiated solid preparations depends upon the time passing from the dissolution of the salt and the isolation of the Cr^{49} on iron hydroxide. Stream of irradiating aqueous solutions the retention is always of zero value. On dissolution of the irradiated crystals the unstable valence forms of chromium are distributed between Cr^{3} and Cr^{6}. (Author)
(Nuclear Physics--Isotope Separation, TT, v. 5, no. 3)

60-16906

1. Chromium Isotopes--Separation
2. Chromates--Effects of radiation
I. Popov, D. K.

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(LOAN) NLL QC 528.4 1965 (10,407)

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Decl - [redacted]

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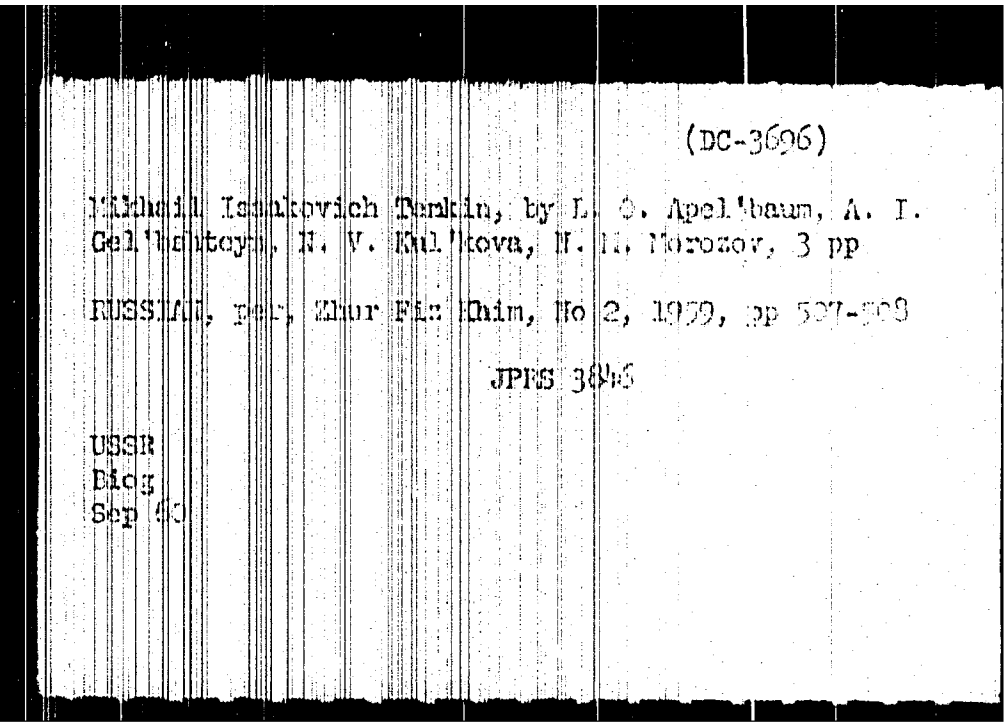

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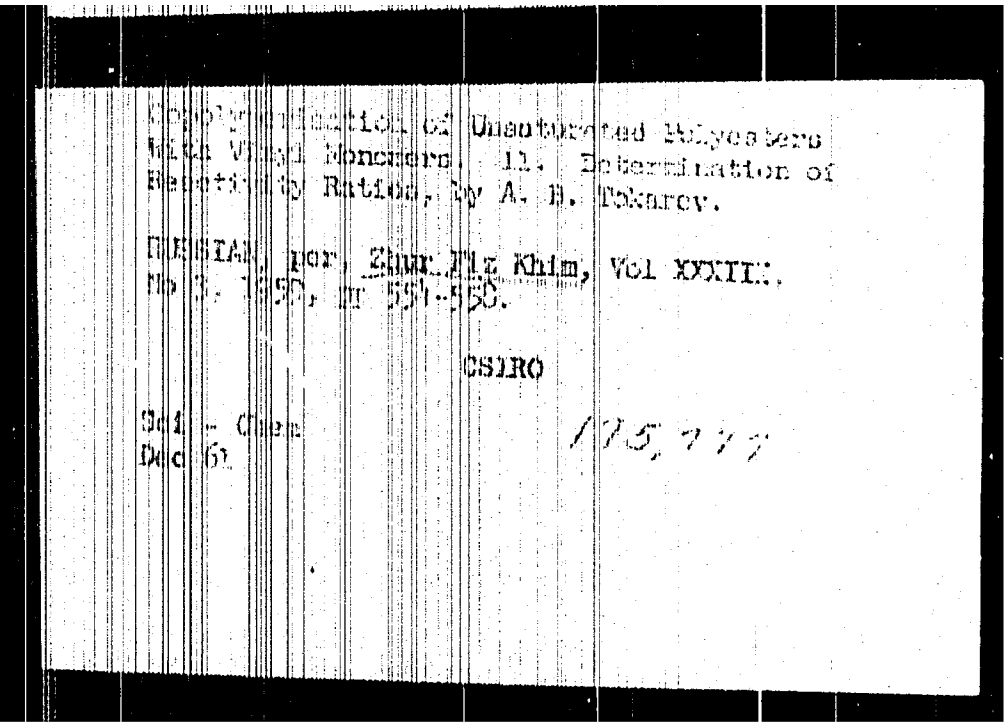

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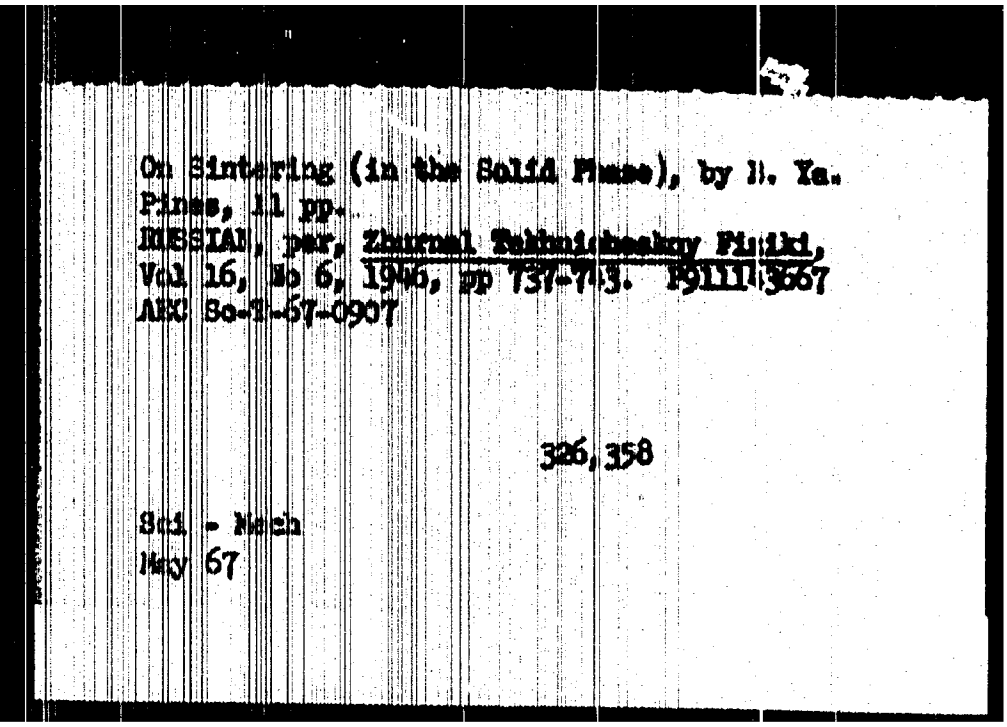

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*CFSTI TT 70-57045

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CEA-tr-R-1290 Uncl.

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Chemistry; Translations MC-4

C-4 NP NSA Dep.(mc); $1.60(fs), $0.50(mf)
JCL or OTS

N-6

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OPTICAL ANISOTROPY OF POLY-ETHYL METHACRYLATE, POLY-p-t-BUTYLPHENYL METHACRYLATE, AND THEIR COPOLYMERS [Opticheskaya Anizotropiya Polietilmetakrilata, Poli-p-tret-butilfenil-metakrilata i Ikh Sopolimerov]. [1961] 5p.
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(Materials--Plastics, TT, v. 5, no. 10)

61-12998

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2. Copolymerization
I. Megarik, S. Ya.
II. Tsvetkov, V. N.
III. ATS-12N49R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/AT-3017

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Model Studies on the Regeneration of Silica-Alumina Cracking Catalysts. I. Method of Study and the Coke Distribution in a Particle of Silica-Alumina Bead Catalyst, by D. P. Kelyzhkin, Ye. N. Kibanova.

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CSIRO

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62-10229

Fedoseeva, O. P., Chernyaeva, E. P., and Tumilkii, N. N.

STUDY OF THE KINETICS OF ION EXCHANGE SORPTION. II. KINETICS OF EXCHANGE WITH PARTICIPATION OF HYDROGEN IONS [Issledovanie Kinetiki Ionoobmennoi Sorbtsii. II. Kinetika Obmena s Uchastiem Vodorodnykh Ionov]. [1961] [9]p. 7 refs. Order from OTS or SLA $1.10 62-10229

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1959, v. 33 [no. 4] p. 936-942.
Another trans. is available from LC or SLA mi[illegible]1.80, ph$1.80 as 61-13398, DSIR NLL IL 2037 [1960] 8p.

DESCRIPTORS: *Ion exchange resins, Resins, *Hydrogen, Sodium, Rubidium, *Ions, Exchange reactions, Reaction kinetics, Adsorption, Diffusion.

For abstract see Technical Translations 5: 297, 1961. (Chemistry--Physical, TT, v. 7, no. 10)

I. Fedoseeva, O. P.
II. Chernyaeva, E. P.
III. Tumilkii, N. N.
IV. Title: Kinetics. . .

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ATS RJ-2159

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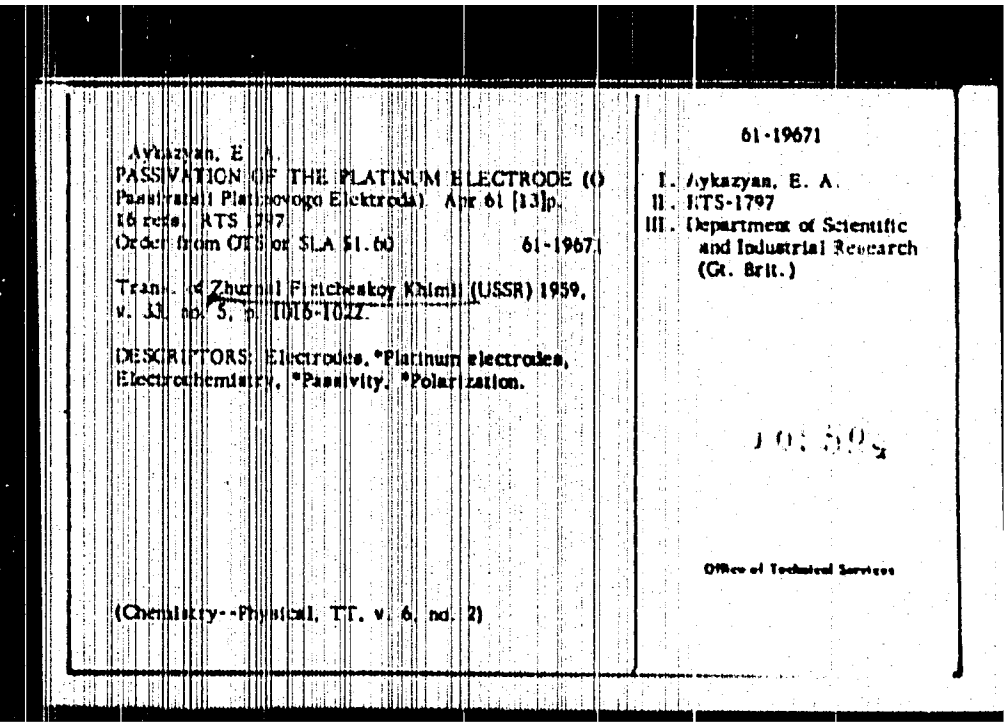

Aykazyan, E. A.
PASSIVATION OF THE PLATINUM ELECTRODE (O
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Refers. ATS 1797
Order from OTS or SLA $1.00 61-19671

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v. 33, no. 5, p. 1016-1022.

DESCRIPTORS: Electrodes, *Platinum electrodes,
Electrochemistry, *Passivity, *Polarization.

(Chemistry--Physical, TT. v. 6, no. 2)

61-19671

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Model Studies of Regeneration of Silica-Alumina Cracking Catalysts. II. Burning-off of Surface Coke and General Kinetic Relationships of the Process, by D. P. Cobrychin, T. M. Klibanova, 8 pp.

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ATS-06L37R
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18F, 885

Bel
Vol IV, No 2
Mar 62

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Acidity Function of the Diethyl Ether-HF_3 System,
by G. B. Manelis.

RUSSIAN, pur, Zhur Fiz Khim, Vol XXXIII, No 5,
1959, pp 1010-1034.

MIL RMS 2232

Sci -
Jul 63

238/182

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Self-Diffusion of Dibasic Phosphate Ion in the System Water-Electrolyte-Nonelectrolyte, by P. Ya. Silver, 9 pp.

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SLA 60-17727

Sci

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OTS, Vol IV, No 3

Sep 60

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

The Photocatalytic Properties of Zinc Oxide in the Reduction of Methylene Blue. 4. Poisoning of the Photocatalysts by Nitro Compounds, by I. N. Marshchevaya.

RUSSIAN, Per, Zhur Fiz Khim, Vol XXXIII, No 5, 1959, pp 1071-1079.

DSIR LIU RTS 1537

Sci - Chem

Sep 60

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

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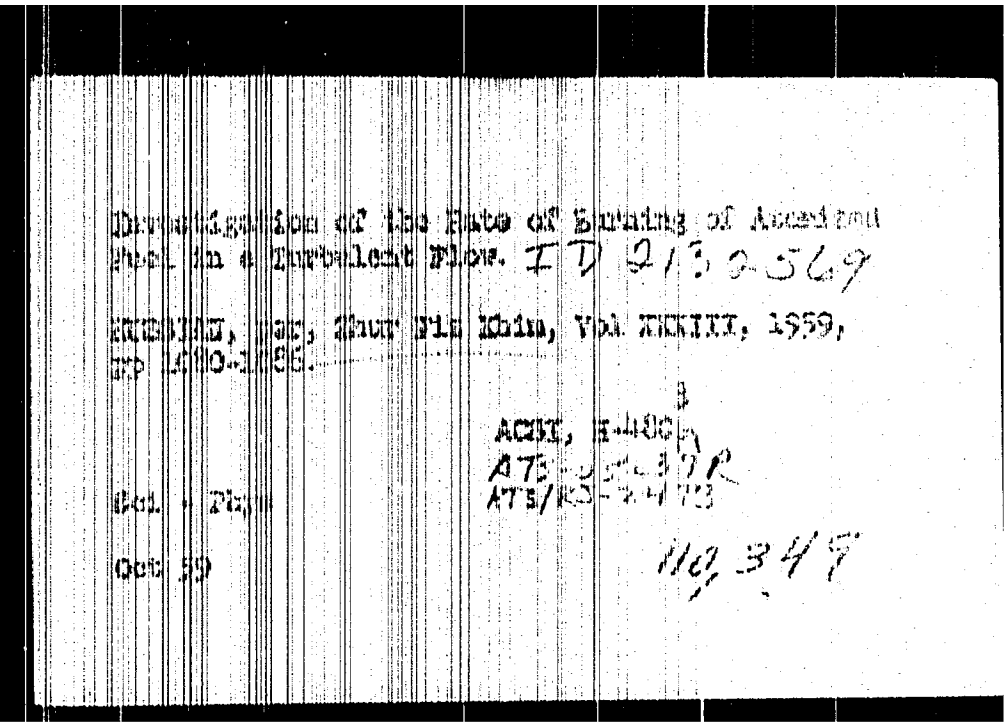

Determination of the Rate of Burning of Aerosol
Fuel in a Turbulent Flow. TD 213.3.S69

Chemical, Biological, and Radiological Defense,
AD 4[illegible]SE.

ACSI, H-[illegible]
AT[illegible]
AT5/[illegible]

Pol. + Plan

Oct 59

NO 345

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Vasil'yev, S. S.
KINETIC ANALYSIS OF CHAIN REACTIONS. V. REARRANGEMENT OF THE FORM OF THE SOLUTIONS OF THE BASIC EQUATIONS OF THE KINETICS OF CHAIN REACTIONS FOR THE CASE OF TWO ACTIVE SPECIES (Kineticheskiy Analiz Tsepnykh Reaktsiy. V. Preobrazovaniye Formy Resheniy Osnovnykh Uravneniy Kinetiki Tsepnykh Reaktsiy dlya Slucheya Dvukh Aktivnykh Chastits).
Jan 61 [6]p. Trans. RTS 1739.
Order from LC or SLA ml$2.40, ph$3.30 61-15732

Trans. of Zhur[nal] Fiz[icheskoy] Khim[ii] (USSR) 1959 v. 33, no. 5, p. 1100-1110.

Transformations of the form of the solutions of the basic differential kinetic equations of chain reactions for the case of two active species led to expressions that directly show how the kinetic development of chain reactions is affected by the magnitudes of the generalized rate constants of the initial kinetic (Chemistry--Physical, TT, v. 5, no. 12) (over)

61-15732

1. Chemical reactions--Mathematical analysis
2. Title: Chain reactions
I. Vasil'yev, S. S.
II. RTS-1739
III. Department of Scientific and Industrial Research (Gt. Brit.)
IV. Title: Rearrangement ...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Heat of Adsorption in the Electronic Chemical Scarption Theory, by Sh. M. Kogan, V. B. Sankovskiy, 8 pp.

RUSSIAN, [illegible], Vol XXIII, 1959, pp 1129-1133.

ABC Tr-1299

Sci - Phys, Chem
21 Feb 61

140,948

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Fedoseeva, O. P. and Turitskii, N. N.
STUDY OF THE KINETICS OF ION EXCHANGE SORPTION. III. COMPLETE EXCHANGE BETWEEN MONOVALENT AND DIVALENT ION IN RESINS.
[1961] [9 p.] 4 refs.
Order from CTS or SLA $1.10 62-10307

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1959, v. 33, [no. 5] p. 1140-1146.

DESCRIPTORS: *Ion exchange resins, Resins, Hydrogen, Sodium, Calcium, Strontium, Ions, Exchange reactions, Reaction kinetics, Diffusion, Adsorption.

The effect was studied of the cationic form of the resin on the diffusion coefficients of ionic microcomponents. It is shown that monovalent as well as divalent ions diffuse faster in a resin containing monovalent ions than in a resin containing divalent ions. Swelling of (Chemistry, Physical, TT, v. 7, no. 10) (over)

62-10307

I. Fedoseeva, O. P.
II. Turitskii, N. N.
III. Title: Complete ...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

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19 (IC-3692).

Boris Vasil'yevich Yerofeyev (On his 50th Birthday), by S. V. Markevich, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 5, 1959, pp 1155, 1156.

JPRS 3368

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Jun 60

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Study of the Oxidation of Cyclohexane by the Method of Inhibition During the Reaction, by E. T. Denisov, 13pp.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 33, 1959, No 6, pp 1193-1208.
OTSTI TT-64-18412

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Sci - Chemistry
Apr 67

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

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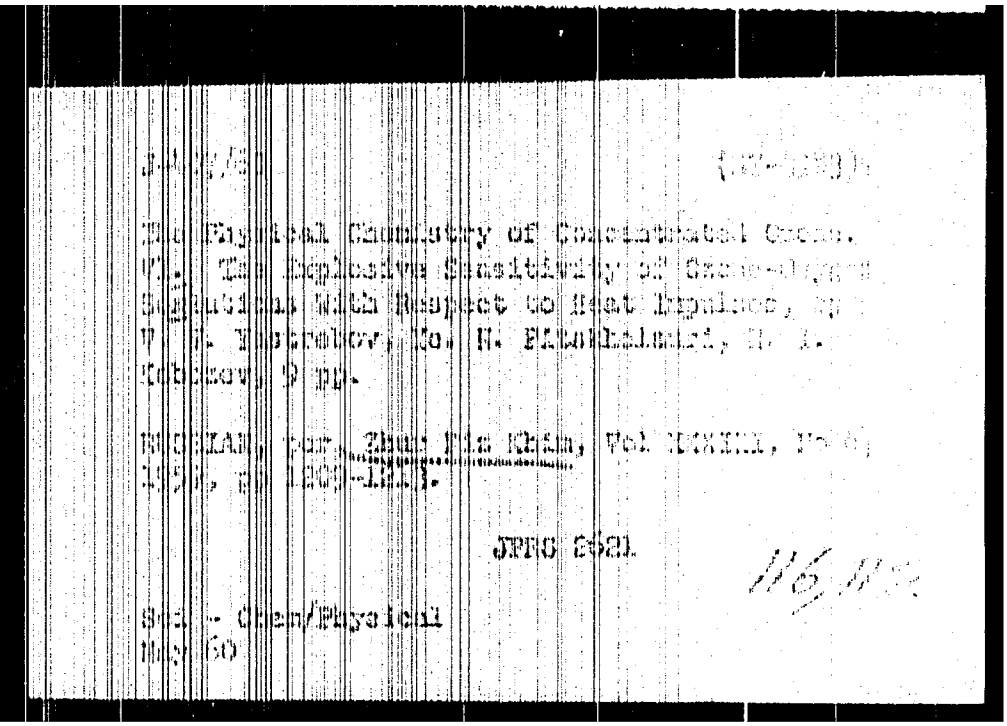

[illegible]

The Physical Chemistry of Combustible Gases.
VI. The Explosive Stability of Gases-[illegible]
Systems with Respect to Heat Impulse, by
V. N. Kondratiev, Mo. N. Rabinovich, D. A.
Frankov, 9 pp.

[illegible], per Zhur Fiz Khim, Vol XXXIII, No 6,
1959, pp 1369-1377.

JPRS 6521

[illegible]

Sci - Chem/Physical
Mfg 60

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Presentation of the Equation of State of Real Gas in Explicit Form in Terms of the Independent Variables T and v, by V. A. Zagoruchenko, P. M. Kessel'man, 8 pp.
RUSSIAN, per, Zhurnal Fizicheskoy Khimiy, Vol 33, No 6, 1959, pp 1221-1229.
FTIS TT 60-55051

Sci/Chem
Dec 70

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Investigation of the Surface State of Nickel and Iron Cathodes From the Drop in Potential After Disconnecting the Current, by V. E. Past, Z. A. Iofa.
[RUSSIAN], per, Zhurnal Fizicheskoy Khimii, Vol 33, No 6, 1959, pp 1230-1237.
NASA TT F-11,770

Sci
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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

A Study of the Wetting of Solid Surfaces of Refractory Oxides by Liquid Metals, by V. N. Yeremenko, Yu. V. Naydich.
RUSSIAN, per, Zhurnal Fiz Khimii, Vol 33, No 6, 1959, pp 1238-1245.
CIA 2-6775

Oct 60 369,408

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

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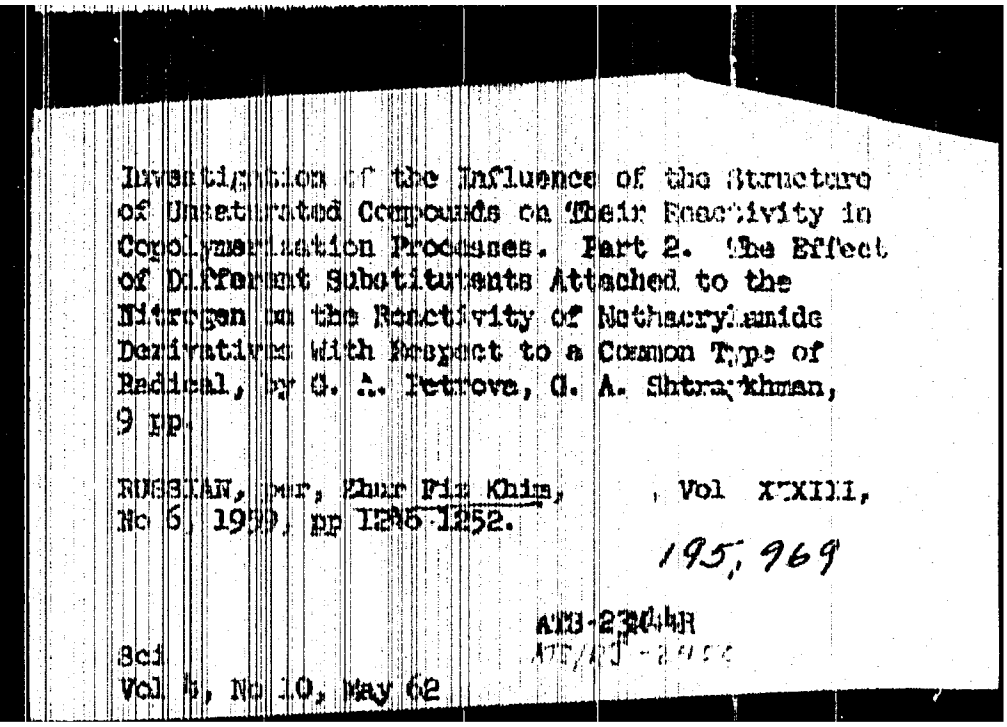

Investigation of the Influence of the Structure of Unsaturated Compounds on Their Reactivity in Copolymerization Processes. Part 2. The Effect of Different Substituents Attached to the Nitrogen on the Reactivity of Methacrylamide Derivatives with Respect to a Common Type of Radical, by G. A. Petrova, G. A. Shtraykhman, 9 pp

RUSSIAN, Zhur, Zhur Fiz Khim, , Vol XXXIII, No 6, 1959, pp 1246-1252.

195,969

AM-2304R

Sci
Vol 5, No 10, May 62

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

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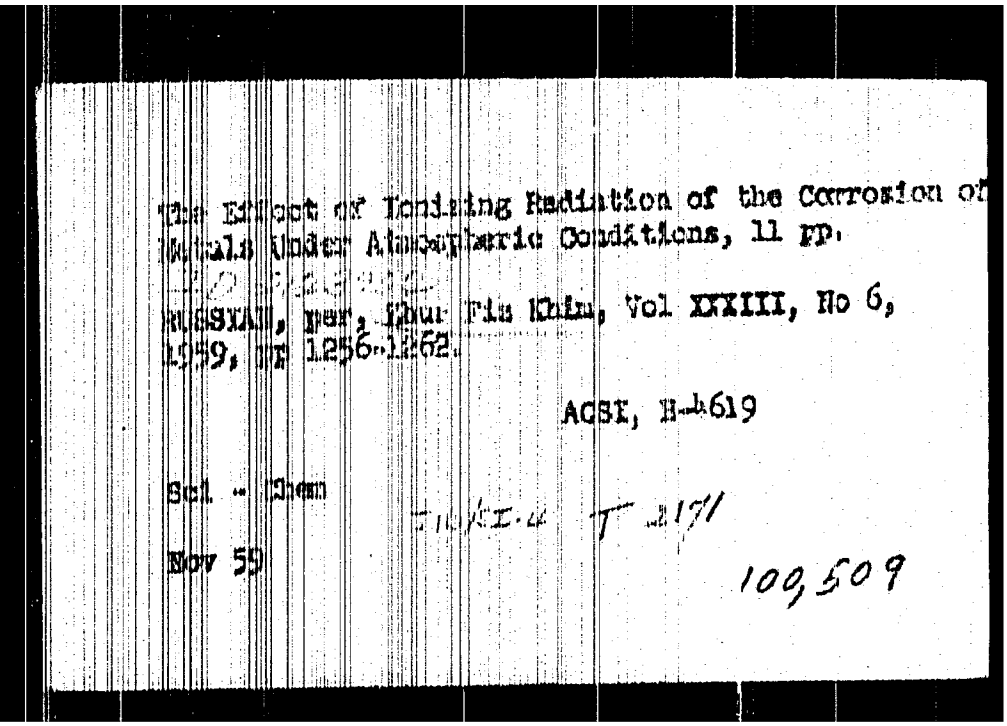

The Effect of Ionizing Radiation of the Corrosion of Metals Under Atmospheric Conditions, 11 pp.

[illegible]

[illegible], per, Khua Hsu Hsueh, Vol XXXIII, No 6, 1959, pp 1256-1262.

ACSI, B-4619

Sci - Chem

Nov 59

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

61-13219

1. Zinc--Electrodeposition
I. Zosimovich, O. P.
II. Bogatova, N. F.
III. RTS-1692
IV. Department of Scientific and Industrial Research (Gt. Brit.)

149,730

Office of Technical Services

Zosimovich, O. P. and Bogatova, N. F.

ELECTRODEPOSITION OF ZINC IN THE PRESENCE OF SMALL QUANTITIES OF ANTIMONY AND COBALT (Elektrokhimicheskoye Vydeleniye Tsinka v Prisutstvii Malykh Kolichestv Sur'my i Kobal'ta).

Nov 60 [11p. 10 ref.] RTS-1692.

Order from LC or ITA $1.80, xh $1.80 61-13219

Trans. of Zhurnal Prikladnoy Khimii (USSR) 1959, v. 33, no. 6, p. 1324-1327.

It is established that in the presence of small quantities of antimony (0.05 mg/l) and cobalt (20 mg/l) during the electrolytic deposition of zinc an increase in polarisation is observed. When cobalt is present in quantities greater than 0.2 mg/l of antimony, the process is determined by the presence of antimony. Antimony introduced into the electrolyte either as potassium antimonyl tartrate (tartar emetic) or as antimony sulphate, has the same influence on the course of the polarisation curves. It is suggested that small

(Chemistry-Physical, TT, v. 5, no. 7) (over)

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Phase Equilibria in the System Melamine-Ammonia,
by K. P. Krichevskiy, G. D. Efremova,

RUSSIAN, per. Zhur Fiz Khim, Vol XXXIII, No 6,
1959, pp 1328-1335.

ATS RJ-2040

Sci - Chem
Dec 59

103774

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

A Method for Calculating Vapor-Liquid Equilibria of Tricomponent Systems, by V. B. Kogan, V. M. Safronov, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 6, 1959, pp 1353-1359.

SLA 60-17729

Sci

1029,401

OTS, Vol IV, No 3

Sep 60

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Shilov, A. Ye. and Sabirova, R. D.
MECHANISM OF THE PRIMARY ACT OF DECOMPOSITION OF CHLORINE DERIVATIVES OF METHANE. I. DECOMPOSITION OF CARBON TETRACHLORIDE AND METHYL CHLORIDE (Mekhanizm Pervichnogo Akta Termicheskogo Raspada Khlorproizvodnykh Metana) Nov (0) [7]p. 19 refs. RTS 1527.
Order from: LC or SLA (m)32.40, (ph)3.30 61-13488

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1959 [v. 33] n. [illegible] p. 1365-1373.

The kinetics of the thermal decomposition of carbon tetrachloride and methyl chloride in jets was investigated. The primary decomposition in both cases takes place with the dissociation of a chlorine atom. A mechanism for the secondary reaction is suggested, which agrees with the products of reaction and the kinetic data. (Author)

(Chemistry - Physical, TT. v. 5, no. 4)

61-13488

1. Chlorides--Decomposition
I. Shilov, A. Ye.
II. Sabirova, R. D.
III. Title: Decomposition.
IV. RTS-1527
V. Department of Scientific and Industrial Research (Gt. Brit.)

143,240

Office of Technical Services

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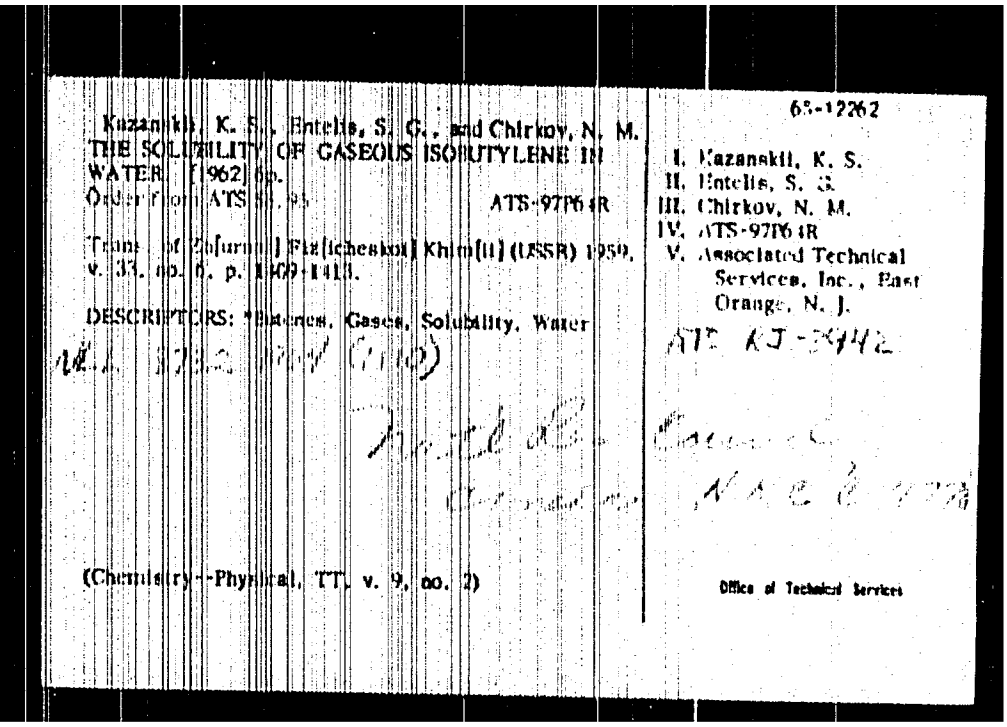

Kazanskii, K. S., Entelis, S. G., and Chirkov, N. M.
THE SOLUBILITY OF GASEOUS ISOBUTYLENE IN WATER [1962] 6p.
Order from ATS $3.00 ATS-9719641R

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1959, v. 33, no. 6, p. 1402-1413.

DESCRIPTORS: *Butenes, Gases, Solubility, Water

(Chemistry--Physical, TT, v. 9, no. 2)

63-12262

I. Kazanskii, K. S.
II. Entelis, S. G.
III. Chirkov, N. M.
IV. ATS-9719641R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS KJ-3742

Office of Technical Services

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1

Absorption Properties of Cellulose in the Process of Its Thermal Decomposition, by T. V. Gatovskaya. RUSSIAN, per, Zhur Fiz Khim., Vol 33, No 6, 1959, pp 1418-1421.
*NTIS TT 71-51001

July 71

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660047-1